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Memorandum

Prepared for: File
Project Title: Florence Copper
Project No.: 149050

Subject: Florence Copper Project, Temporary APP and UIC Permits, Ambient Event 1
Date: May 10, 2018
To: Ian Ream
From: Barb Sylvester

Groundwater sampling at the Florence Copper Project site took place July 17 through July 19, 2017. Ten Point-of-Compliance (POC) and Supplemental wells were sampled as part of the ambient monitoring program for the Temporary APP and UIC permits. Two of the twelve new APP/UIC wells (MW-01-O, MW-01-LBF) had not been installed at this time. Eleven total samples were collected, including one duplicate sample. Table 1 summarizes the sampling activities.

Ambient samples were to be analyzed for metals, inorganics, organics, and radionuclides (Table 2). Samples for metal analysis were filtered in the field.

Table 1. Summary of July 2017 Ambient Event

Date	Sample Identification	Pump Style	Analyses
July 17, 2017	M55-UBF	Low-Flow	Ambient
	M56-LBF	Low-Flow	Ambient
	M57-O	Low-Flow	Ambient
July 18, 2017	M54-LBF	Low-Flow	Ambient
	M54-O	Low-Flow	Ambient
	M58-O	Low-Flow	Ambient
July 19, 2017	M52-UBF M63.0 (Duplicate)	Low-Flow	Ambient
	M59-O	Low-Flow	Ambient
	M60-O	Low-Flow	Ambient

Table 1. Summary of July 2017 Ambient Event			
Date	Sample Identification	Pump Style	Analyses
July 19, 2017	M61-LFB	Low-Flow	Ambient
	MW-01-LFB		Not Constructed
	MW-01-O		Not Constructed

Table 2. Analytical Parameters		
Analysis	Method	Preservative
Inorganic Common Ions		
pH (lab)	SM 4500H+	None
Electroconductivity (EC) (lab)	SM 2510B	None
Bicarbonate Alkalinity	SM 2320B	None
Carbonate Alkalinity	SM 2320B	None
Hydroxide Alkalinity	SM 2320B	None
Total Alkalinity	SM 2320B	None
Chloride	EPA 300.0	None
Fluoride (Level I)	EPA 300.0	None
Nitrate as N	EPA 300.0	None
Nitrite as N	EPA 300.0	None
Sulfate (Level I)	EPA 300.0	None
Total Dissolved Solids (Level I)	SM 2540C	None
Cation/Anion Balance	Calculation	-
Cyanide	EPA 335.4	NaOH
Formation-Related Radiochemicals		
Gross Alpha	600/00-02	None
Gross Beta	900.0	None
Radium 226	903/GammaRay HPGE	None
Radium 228	904/GammaRay HPGE	None
Total Uranium Isotopes (if G. Alpha >12.0)	ASTM 6239	None
Radon 222	7500-Rn	None (Voas)
Total Uranium (unfiltered total as mg/L)	EPA 200.8	HNO3
Process-Related Organics		
Extractable Fuel Hydrocarbons (Diesel Range Organics)	EPA 8015D	None
Benzene	EPA 8260B	HCl Voas
Ethylbenzene	EPA 8260B	HCl Voas
Toluene	EPA 8260B	HCl Voas
Total Xylene	EPA 8260B	HCl Voas

Table 2. Analytical Parameters		
Analysis	Method	Preservative
Carbon Disulfide	EPA 8260B	HCl Voas
Napthalene	EPA 8260B	HCl Voas
Octane	EPA 8260B	HCl Voas
Trace Metals and Cations (Filtered-Dissolved)		
Aluminum	EPA 200.8	HNO3
Antimony	EPA 200.8	HNO3
Arsenic	EPA 200.8	HNO3
Barium	EPA 200.8	HNO3
Beryllium	EPA 200.8	HNO3
Calcium	EPA 200.7	HNO3
Cadmium	EPA 200.8	HNO3
Chromium	EPA 200.8	HNO3
Cobalt	EPA 200.8	HNO3
Copper	EPA 200.8	HNO3
Iron	EPA 200.7	HNO3
Lead	EPA 200.8	HNO3
Magnesium (Level I)	EPA 200.7	HNO3
Manganese	EPA 200.8	HNO3
Mercury	EPA 245.1	HNO3
Nickel	EPA 200.8	HNO3
Potassium	EPA 200.7	HNO3
Selenium	EPA 200.8	HNO3
Sodium	EPA 200.7	HNO3
Thallium	EPA 200.8	HNO3
Zinc	EPA 200.8	HNO3

Observations/Problems

1. Turbidity measurements above 5 NTUs were observed in M55-UBF and M56-LBF.

Table 3. Summary of Water Levels						
Sample Event:	Ambient Event 1				Measured By:	M. Orcutt
Well ID	Sample Date	Depth to Water (feet bls)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)	Comments
M52-UBF	7/19/2017	231.82	TOC	1485.04	1253.22	
M54-LBF	7/18/2017	234.95	TOC	1481.89	1246.94	
M54-O	7/18/2017	235.65	TOC	1482.40	1246.75	
M55-UBF	7/17/2017	229.94	TOC	1479.21	1249.27	
M56-LBF	7/17/2017	231.99	TOC	1478.69	1246.70	
M57-O	7/17/2017	232.35	TOC	1478.75	1246.40	
M58-O	7/18/2017	234.53	TOC	1481.16	1246.63	
M59-O	7/19/2017	233.06	TOC	1480.26	1247.20	
M60-O	7/19/2017	229.64	TOC	1477.45	1247.81	
M61-LBF	7/19/2017	233.55	TOC	1480.80	1247.25	
MW-01-LBF	Not Constructed					
MW-01-O	Not Constructed					

amsl = Above Mean Sea Level

TOC = Top of Casing

TOM = Top of Monument

NM = Not Measured

Table 4. Summary of Field Parameters						
Sample Event:	Ambient Event 1		Measured By:	M. Orcutt		
Well ID	Sample Date	Temperature (°C)	pH	Conductivity (µmhos/cm)	Turbidity (NTU)	Comments
M52-UBF	7/19/2017	24.1	7.44	1,449	1.00	
M54-LBF	7/18/2017	24.2	7.33	1,515	0.31	
M54-O	7/18/2017	24.3	8.16	749	1.18	
M55-UBF	7/17/2017	24.9	7.15	1,715	21.8	
M56-LBF	7/17/2017	24.2	7.23	1,490	22.6	
M57-O	7/17/2017	24.2	7.90	882	1.53	
M58-O	7/18/2017	24.0	7.73	1,069	2.75	
M59-O	7/19/2017	23.5	7.74	808	5.38	
M60-O	7/19/2017	24.0	7.69	1020	3.98	
M61-LBF	7/19/2017	25.7	7.91	782	3.63	
MW-01-LBF	Not Constructed					
MW-01-O	Not Constructed					

°C = degrees Celsius

°F = degrees Fahrenheit

µmhos/cm = Micromhos per Centimeter

NTU = Nephlometric Tubidity Units

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SITE VISITATION

JOB NAME: Florence Copper JOB NUMBER: 149050

PERSONNEL: M. Orcutt, T. Keefe DATE: 7-10-2017

COMMENTS:

0700 On site, signed in at front office.
Tim + Greg - Site specific training
Tailgate Safety meeting
0830 Set M52 - LBF - (Hard)

0905 Set M59-O - Matched

1010 Set M61-LBF - checked spec sheet
All a match. First deployment.

1035 Set M60-O All systems matched.

1130 Set M54-O - match
1215 Set & M54-LBF - match
Short lunch and returned.
4 wells remaining
unloaded + Locked up.
1330 Signed out.

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SITE VISITATION

JOB NAME: Florence Copper JOB NUMBER: 149050

PERSONNEL: M. Oratt, T. Keeke DATE: 7-11-2017

COMMENTS:

0700 On site, signed in at front office. Loaded up pumps for 2 wells + mob out.

0800 Installed MS8-O All parts matched. Good job on labeling upon removal.

0850 Installed MS7-O. Good match. Mob back to pick up last 2 pumps

0945 Installed MS6-LBF - good match.

10:15 Installed MS5-ABF - good match

10:30 Mob back to ~~SP~~ shop. Cut down boxes and stored reels.

11:15 Signed out, spoke w/ Ian on sampling, checked out cooler.

1125 Off ~~site~~ Site.

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SITE VISITATION

JOB NAME: Florence Copper JOB NUMBER: ~~150288~~ 150342

PERSONNEL: M. Orcutt DATE: 7-17-2017

COMMENTS:

0900 On site after p/u equipment
Signed in at front office and p/u sample bottles and QED equipment.
Mob to well field to warm up BC's WQ meters for calibrations.
Calibrated meters and start purging new POC wells.
* Per Ian, over pump wells post well testing to clean out zone.
* Radon ZZZ VOA's w/ HCl. Per lab/Barb wash out VOA's w/ Soap & DI then rinse w/ purge water.

11:32 Sampled MS6-LBF
13:16 Sampled MS5-UBF
1400 Quick lunch and return.
1550 Sampled MS7-O

1630 Mob back to office and hand over samples to Ian for Turner labs-Tucson
1700 Signed out, off site

7-17-17 End

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SITE VISITATION

JOB NAME: Florence Copper JOB NUMBER: ~~150288~~ 150342

PERSONNEL: M. Oratt DATE: 7-18-2017

COMMENTS:

0705 On site, signed in at office and picked up QED equipment.
Mob to well field and warm up BC's WQ Meters for Calibrations.
Started purge on deep well M58-O
Purged @ 2x normal volume to clean zone.
Held for new sample bottles.

0930 Sampled M58-O Held for new bottles @ 15m.
1108 Sampled M54-LBF
1302 Sampled M54-O * TA Phx second case for TPH had Hcl Amber liters.
Plu NP case at office and return to grab last sample

1430 Signed out, relinquished samples to Ian Nitrogen run to Phx
used 1-300 and 1/2 second 300.
Total picked up Monday 2-300's
1-150

End
7-18-17

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SITE VISITATION

JOB NAME: Florence Copper JOB NUMBER: ~~150288~~ 150342

PERSONNEL: M. Orcutt DATE: 7-19-2017

COMMENTS:

0700 On site, signed in at front office and p/u QED equipment, Mob to well field and warmed up RC's WQ meters for calibration

0830 Sampled M59-O
1028 Sampled M60-O

1115 Short lunch ~~the~~ then return for last 2 wells + Dup

1248 Sampled M61-LBF
1445 Sampled M62-UBF w/ Dup M63-O

Returned QED equipment and relinquished Samples to Ian for Turner Labs
1415 off site

END Day #1

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M52-UBF

SAMPLED BY: M. Orcutt

DATE: 7/19/2017

WELL INFORMATION

TD Casing: 275 feet

Static Depth to Water: 231.82 feet

System Purge before Params 2.6 liters

Time Purge Start: 1400 hours

Time Sample Start: 1445 hours

Time Purged: 45 minutes

140psi → 150 @ 1435 (DMP)

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 237.5'
1414	24.8	7.42	1446	7.50	3.04	0.21	3.0	0.03	Clear, no odors
1418	25.0	7.42	1446	7.43	1.57	0.25	4.0	0.03	
1421	25.0	7.43	1447	7.43	1.59	0.33	5.0	0.03	
1424	24.7	7.43	1448	7.25	1.67	0.33	6.0	0.03	
1431	24.6	7.44	1448	7.12	1.69	0.28	8.0	0.03	
1437	24.1	7.44	1445	7.10	0.83	0.33	10.0	0.03	
1440	24.0	7.44	1445	6.92	0.79	0.33	11.0	↓	
1443	24.1	7.44	1449	7.10	1.00	0.33	12.0	↓	

Sample ID: M52-UBF Sample Time, 1445 Duplicate (ID = M53.0 Time 1500) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M54-LBF

SAMPLED BY: M. Orcutt

DATE: 7/18/2017

WELL INFORMATION

TD Casing:	630	feet	Time Purge Start:	10:18	hours
Static Depth to Water:	234.95	feet	Time Sample Start:	11:08	hours
System Purge before Params	3.9	liters	Time Purged:	50	minutes

Time	Temperature (°C)	pH	EC (umhos/cm)	DO (mg/L)	Turbidity (NTU)	Pump Rate (L/min)	Purge Volume (L)	Pulldown DTW (feet)	Comments
	+/- 3%	+/- 0.1	+/- 3%	10% or <.5	10% or <5	<0.5L/min		<0.5 ft	QED Bladder Pump Intake 470'
1035	24.0	7.38	1506	7.18	3.84	0.23	4.0	0.00	Clear, NO ODORS
1039	23.8	7.37	1509	7.10	0.84	0.25	5.0	0.00	
1043	23.8	7.37	1511	7.30	0.65	0.25	6.0	0.00	
1046	23.8	7.35	1514	7.10	0.59	0.33	7.0	0.00	
1052	23.9	7.35	1519	7.15	0.44	0.33	9.0	0.00	
1058	24.0	7.32	1518	6.72	0.44	0.33	11.0	0.00	
1102	24.1	7.33	1519	6.54	0.46	0.25	12.0	↓	
1106	24.2	7.33	1515	6.20	0.31	0.25	13.0	↓	
									Lowered flow for VOC's

Sample ID: M54-LBF Sample Time, 11:08 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M54-O

SAMPLED BY: M. Orcutt

DATE: 7/18/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 235.65 feet

System Purge before Params 9.2 liters

Time Purge Start: 12:05 hours

Time Sample Start: 1302 hours

Time Purged: 57 minutes

160 psi

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 1000'
1236	24.3	8.11	745	0.58	2.44	0.30	9.5	0.00	clear, no odors
1239	24.4	8.13	747	0.46	1.99	0.33	10.5	0.00	
1242	24.3	8.13	748	0.40	1.91	0.33	11.5	0.00	
1245	24.4	8.15	750	0.37	1.51	0.33	12.5		
1251	24.3	8.17	748	0.34	1.23	0.33	14.5		
1254	24.3	8.18	750	0.34	1.37	0.33	16.5		
1257	24.3	8.17	749	0.32	1.20	0.33	17.5		
1300	24.3	8.16	749	0.30	1.18	0.33	18.5		
									Low flow for VOC's
									2,4,6,8

Sample ID: M54-O Sample Time, 1302 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M55-UBF

SAMPLED BY: M. Orcutt

DATE: 7/17/2017

WELL INFORMATION

TD Casing: 260 feet

Static Depth to Water: 229.94 feet

System Purge before Params 2.8 liters

Time Purge Start: 12:26 hours

Time Sample Start: 1315 hours

Time Purged: 49 minutes

150 psi

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 250'
1240	25.2	7.18	1707	5.36	27.7	0.21	3.0	0.00	LT. Cldy, NO ODORS
1244	25.1	7.16	1711	4.86	26.7	0.25	4.0	0.00	
1248	25.3	7.16	1714	4.78	23.0	0.25	5.0	0.00	
1252	25.1	7.16	1712	4.56	24.8	0.25	6.0	0.00	
1259	25.3	7.17	1716	4.50	23.3	0.28	8.0	0.00	
1306	24.9	7.14	1717	4.56	22.1	0.28	10.0	0.00	
1310	24.9	7.15	1717	4.56	22.3	0.25	11.0	0.00	
1314	24.9	7.15	1715	4.40	21.8	0.25	12.0	0.00	
									lowered flow for VOC's

Sample ID: M55-UBF Sample Time, 1316 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M56-LBF

SAMPLED BY: M. Orcutt

DATE: 7/17/2017

WELL INFORMATION

TD Casing: 340 feet

Static Depth to Water: 231.99 feet

System Purge before Params 2.4 liters

Time Purge Start: 10:44 hours

Time Sample Start: 11:32 hours

Time Purged: 48 minutes

150psi to 160psi @ 11:10

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 330'
1058	24.5	7.14	1464	4.93	23.9	0.17	2.5	0.24	Lt. cldy, no odors
1102	24.5	7.14	1474	3.95	44.6	0.25	3.5	0.26	
1105	24.5	7.15	1477	3.40	47.0	0.33	4.5	0.27	
1108	24.3	7.16	1478	3.03	45.4	0.33	5.5	0.27	
1112	24.0	7.16	1478	2.64	42.6	0.25	6.5	0.28	
1119	24.1	7.20	1490	2.68	29.8	0.28	8.5	0.29	
1125	24.1	7.22	1485	2.62	28.1	0.33	10.5	0.30	
1128	24.1	7.22	1489	2.65	27.1	0.33	11.5	0.30	
1131	24.2	7.23	1490	2.61	22.6	0.33	12.5	0.30	
									Lowered flow for VOC's

Sample ID: M56-LFB Sample Time, 11:32 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M57-O

SAMPLED BY: M. Orcutt

DATE: 8/17/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 232.35 feet

System Purge before Params 8.7 liters

Time Purge Start: 1440 hours

Time Sample Start: 1550 hours

Time Purged: 70 minutes

psi @ 160

Time	Temperature (°C)	pH	EC (umhos/cm)	DO (mg/L)	Turbidity (NTU)	Pump Rate (L/min)	Purge Volume (L)	Pulldown DTW (feet)	Comments
1317	+/- 3%	+/- 0.1	+/- 3%	10% or <.5	10% or <5	<0.5L/min		<0.5 ft	QED Bladder Pump Intake 950'
~~1314~~	24.4	7.79	869	2.53	3.54	~~0.25~~ 0.24	9.0	0.00	clear, NO ODORS
1321	24.6	7.84	879	2.24	1.49	~~0.25~~ 0.25	10.0	0.00	
1325	24.3	7.87	881	2.19	1.50	0.25	11.0		
1329	24.2	7.88	883	2.14	1.88	0.25	12.0		
1535	24.1	7.87	880	2.13	1.90	0.33	14.0		
1541	24.1	7.88	880	2.06	1.54	0.33	16.0		
1545	24.0	7.90	881	2.02	1.51	0.25	17.0		
1549	24.2	7.90	882	2.04	1.53	0.25	18.0		
									Lowered flow for VOC's
									2, 4, 6, 8

Sample ID: M57-O Sample Time, 1550 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M58-O

SAMPLED BY: M. Orcutt

DATE: 7/18/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 234.53 feet

System Purge before Params 8.7 liters

Time Purge Start: 0742 hours

Time Sample Start: 0930 hours

Time Purged: 260 w/ Hold • minutes

psi @ 160

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 950'
0816	24.0	7.71	1047	2.32	8.89	0.26	9.0	0.01	LT. Cldy, NO ODORS
0820	23.8	7.70	1057	1.35	5.90	0.25	10.0	0.01	
0824	23.6	7.70	1062	0.99	5.24	0.25	11.0	0.01	
0827	23.7	7.71	1062	0.77	4.56	0.33	12.0	0.01	
0830	23.7	7.71	1064	0.64	3.59	0.33 ~~0.40~~	14.0 •	0.02	
0839	23.7	7.72	1067	0.56	3.08	0.33	16.0	0.02	
0842	23.6	7.73	1066	0.53	2.96	0.33	17.0	0.02	
0845	23.8	7.73	1065	0.53	2.63	0.33	18.0	0.02	• Hold for new bottle
0914	24.0	7.73	1069	0.71	2.75	N/A	20.0	0.01	Restart
									Low flow for 900'
									2, 4, 6, 8

Sample ID: M58-O Sample Time, 0930 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M59-O

SAMPLED BY: M. Orcutt

DATE : 7/9/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 233.06 feet

System Purge before Params 8.7 liters

Time Purge Start: 0732 hours

Time Sample Start: 0830 hours

Time Purged: 58 minutes

160 psi

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments: Dark, 8 Amber/Brown @ 2-6 liters; QED Bladder Pump Intake 950'
0801	23.6	7.60	798	1.42	62.6	0.31	9.0	0.04	Cldy, Lt. Brown
0805	23.6	7.61	802	1.24	45.1	0.25	10.0	0.04	" NO ODORS.
0808	23.6	7.64	805	1.10	33.6	0.33	11.0	0.04	
0811	23.6	7.66	805	1.01	24.5	0.33	12.0	0.04	
0817	23.6	7.69	806	0.83	12.8	0.33	14.0	0.04	Clear
0823	23.6	7.72	807	0.70	7.28	0.33	16.0	0.04	
0826	23.6	7.73	806	0.69	6.58	0.33	17.0	0.04	
0829	23.5	7.74	808	0.66	5.38	0.33	18.0	0.40	Low flow for VOCs
									2, 4, 6, 8

Sample ID: M59-O Sample Time, 0830 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M60-O

SAMPLED BY: M. Orcutt

DATE: 7/19/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 229.64 feet

System Purge before Params 8.7 liters

Time Purge Start: 0928 hours

Time Sample Start: 1028 hours

Time Purged: 60 minutes

160 psi

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 950'
0958	24.0	7.74	977	3.80	11.7	0.30	9.0	0.00	Clear, no odors
1002	23.9	7.74	999	3.05	10.4	0.25	10.0	0.00	
1006	23.9	7.72	1009	2.89	9.15	0.25	11.0	0.00	
1009	23.9	7.71	1012	2.68	5.04	0.33	12.0	0.00	
1015	23.9	7.71	1014	2.53	4.00	0.33	14.0	0.00	
1021	24.0	7.70	1016	2.31	2.56	0.33	16.0	0.00	
1024	24.0	7.68	1020	2.28	4.00	0.33	17.0	"	
1027	24.0	7.69	1020	2.24	3.98	0.33	18.0	"	
									Lowered flow for VOCs
									2, 4, 6, 9

Sample ID: M60-O Sample Time, 1028 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: M61-LBF

SAMPLED BY: M. Orcutt

DATE: 7/19/2017

WELL INFORMATION

TD Casing: 635 feet

Static Depth to Water: 232.55 ? feet (233.55) assumed this one

System Purge before Params: 4.5 liters

Time Purge Start: 11:52 hours

Time Sample Start: 12:48 hours

Time Purged: 56 minutes

160psi → 150psi @1220

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 535'
1210	25.7	7.90	779	1.48	6.94	0.25	4.5	0.02	Clear, NO ODORS
1213	25.4	7.92	782	1.21	6.96	0.33	5.5	0.05	
1217	25.3	7.90	781	1.05	4.40	0.25	6.5	0.10	
1221	25.7	7.92	782	0.93	3.92	0.125	7.5	0.12	
1231	25.7	7.91	780	0.80	3.80	0.20	9.5	0.20	
1238	25.7	7.90	781	0.70	3.79	0.28	11.5	0.25	
1242	25.6	7.91	782	0.68	4.48	0.25	12.5	0.28	
1246	25.7	7.91	782	0.63	3.63	0.25	13.5	0.30	
									Low flow for VOCs

Sample ID: M61-LFB Sample Time, 1248 Duplicate (ID = N/A, Time N/A) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: MW-01-LBF

SAMPLED BY: M. Orcutt

DATE : 7 / 19/2017

WELL INFORMATION

TD Casing: 630 feet

Static Depth to Water: _____ feet

System Purge before Params 5.0 liters

Time Purge Start: _____ hours

Time Sample Start: _____ hours

Time Purged: _____ minutes

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 580'
									Not yet Constructed

Sample ID: MW-01-LBF Sample Time, NS Duplicate (ID = _____, Time _____) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

GROUNDWATER SAMPLING FIELD DATA

PROJECT: Florence Copper

WELL ID: MW-01-O

SAMPLED BY: M. Orcutt

DATE : 7 / 19/2017

WELL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: _____ feet

System Purge before Params 9.2 liters

Time Purge Start: _____ hours

Time Sample Start: _____ hours

Time Purged: _____ minutes

Time	Temperature (°C) +/- 3%	pH +/- 0.1	EC (umhos/cm) +/- 3%	DO (mg/L) 10% or <.5	Turbidity (NTU) 10% or <5	Pump Rate (L/min) <0.5L/min	Purge Volume (L)	Pulldown DTW (feet) <0.5 ft	Comments QED Bladder Pump Intake 1000'
									Not yet
									Constructed

Sample ID: MW-01-O Sample Time, NS Duplicate (ID = _____, Time _____) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

pH and TEMP CALIBRATION RECORD

Florence Copper Project

Instrument: YSI 556
SN: 15A102406
Probe SN: 600336

APP Sampling Event
Month: July
Year: 2017

Calibration Procedures:

-pH calibration/measurement should be performed in accordance with protocols set forth by ***Standard Methods for the Examination of Water and Wastewater – 4500 H pH.*** Gentle agitation or stirring of sample should maintained during pH calibration and sample analysis.

-Temperature measurement should be performed in accordance with protocols set forth by ***Standard Methods for the Examination of Water and Wastewater – 2550 Temperature*** using an NIST traceable thermometer.

Calibration Standards Used:

Standard	Manufacturer	Lot#	Received	Expiration
4.00	Env Supply	6GL777	7-5-17	Dec 18
7.00	Env Supply	6G1910	7-17-17	Sept 18
10.00	↓	7GA250	7-17-17	Jan 19
7.00 Chk	↓	6GF797	6-8-17 7-19-17	Jan 18 Jan 18

Calibration Record

Date	Time	Sampler	pH 4.00		pH 7.00		pH 10.00		pH 7.00Chk		Temp Chk*	Notes**
			T (°C)	Cal.	T (°C)	Cal.	T (°C)	Cal.	T (°C)	Cal.	T (°C)	
7-17-17	1445	"	—	—	—	—	—	—	38.0	6.98		check 7.0
7-18-17	0745	"	27.4	4.00	27.2	7.00	27.4	10.02	27.3	7.02	24.0 (YSI)	25.0 NIST 1°C
7-18-17	1212	"	—	—	—	—	—	—	36.0	6.98		check 7.0
7-19-17	0735	"	28.9	4.00	28.9	7.00	29.5	10.02	29.3	7.02		
7-19-17	1155	"	—	—	—	—	—	—	29.7	6.98		check 7.0

* Temperature check performed with second NIST thermometer.
** If meter does not provide slope, ensure that the calibration is confirmed with a recheck of pH 7.0 in the column "pH 7.00Chk".
***Perform 7-Check every 10 measurements or if Temperature increases by 15 °F.
**** All maintenance to instrument during the field event should be logged on this form. All maintenance should also be logged on the "Preventative Maintenance" log.

EC and DO CALIBRATION RECORD

Florence Copper Project

Instrument: YSI 556
SN: 15A102406
Probe SN: 600336

APP Sampling Event
Month: July
Year: 2017

Calibration Procedures:

-EC calibration/measurement should be performed in accordance with protocols set forth by ***Standard Methods for the Examination of Water and Wastewater – 2510 Conductivity.***

-Temperature measurement should be performed in accordance with protocols set forth by ***Standard Methods for the Examination of Water and Wastewater – 2550 Temperature*** using an NIST traceable thermometer.

-DO calibration/measurement should be performed as per manufacturer recommendations.

Calibration Standards Used:

Standard Conc.	Manufacturer	Lot#	Received	Expiration
1413	Env. Supply	76A1160	7-5-17	Jan 19
(check)	N/A			

Calibration Record

Date	Time	Sampler	Specific Conductance						DO calibration performed?	Notes*
			EC 1413		EC_____		EC 1413 Chk			
			T (°C)	Cal.	T (°C)	Cal.	T (°C)	Cal.	Yes/No	
7-17-17	1030	Orion II	29.5	1413			N/A		Yes	100% SAT 768.5 mm/Hg
7-18-17	0905	"	27.2	1413			N/A		Yes	100% SAT 766.7 mm/Hg
7-19-17	0756	"	29.2	1413			N/A		Yes	100% SAT. 768.0 "

* All maintenance to instrument during the field event should be logged on this form. All maintenance should also be logged on the "Preventative Maintenance" log.

TURBIDITY CALIBRATION RECORD

Florence Copper Project

Instrument: LaMotte 2020e
SN: 10969
Probe SN: N/A

APP Sampling Event
Month: July
Year: 2017

Calibration Procedures:

-Calibration/measurement should be performed in accordance with protocols set forth by ***USEPA Method 180.1***
using an NIST traceable thermometer.

Calibration Standards Used:

Standard	Manufacturer	Lot#	Received	Expiration
0 NTU	Amco	C691307	2-13-17	7-18
1 NTU	↓	C582717B	5-11-17	1-18
10 NTU	↓	C693333	↓	7-18
1 NTU Chk	↓	C582717B	↓	1-18

Calibration Record

Date	Time	Sampler	0 NTU	1 NTU	10 NTU	1 NTU Chk	Notes**
7-17-17	10:25	M. Orcutt	0.00	1.02	9.98	0.99	
7-18-17	0750	"	0.00	1.01	10.02	1.01	
7-19-17	0745	"	0.00	1.00	9.98	0.99	

YSI 556 NEW JAN 28, 2015

1/28/15

↓

3/26/15 No Maint. Required

5/4/2015 DO not Calibrating -
MiOrcutt Replaced DO Sensor membrane.
Recalibration OK. (Florence).

5/7/2015 NIST Thermometer check.
MiOrcutt BC-1A Model 4146 Exp 11/8/2015
1°C. from YSI 556 Temp.

8/10/2015
MiOrcutt pH not calibrating.
F.C. Forced readings -
Un calibrated and pH 7.0
Re Calib. check OK. MV +146
at pH 7.0

8/13/2015 Replaced pH/ORP Sensor
MiOrcutt +0.6 MV - good

Scale: 1 square = _____

2016

Aug 9, - Ernies
MiOrcutt D.O. Fluid Replace
and D.O. Tip replaced

Aug 26 Replaced DO Tip
w/ new fluid.
MiOrcutt Andrews property

Sept. 6 MiOrcutt near
YSI pH failure.
Replaced pH/ORP Sensor
Equipco - repair.

Nov 10, 2016 M. Orcutt
Florence
Replaced YSI 556 pH/ORP Sensor
Nov 11, 2016 NIST Thermometer
check @ Florence (W1585378)
18.4°C. YSI / 19.4° NIST (10C)

Scale: 1 square = _____

Rite in the Rain

OLD pH Sensor report

pH	mV	Reading	Temp
pH 7	·29	7.00	24.8 °C
4	+85.2	4.00	8524.4 ∝
10	-141.4	10.01	24.6

* pH 7 ok,
pH 4, 10 forced,
Changed Sensor (pH, ORP)

Scale: 1 square = _____

Scale: 1 square = _____

Calibration
Certificate No. 1750.01

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001

Cert. No.: 4353-7200114

Traceable® Certificate of Calibration for Extra-Long-Stem Thermometer

Instrument Identification:

Model: 4353 S/N: 151850378 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-179	A45240		
Thermistor Module	A17118	3/03/16	1000371058
Temperature Probe	3039	4/02/16	15--A0P2S-20-1
Temperature Calibration Bath TC-231	A79341		
Digital Thermometer	130070752	2/20/16	4000-6561724

Certificate Information:

Technician: 68 Procedure: CAL-03 Cal Date: 11/10/15 Due Date: 11/10/17

Test Conditions: 24.7°C 46.0 %RH 1018 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A.		0.000	0.3	Y	-1.0	1.0	0.10	>4:1
°C		N.A.		100.000	99.9	Y	99.0	101.0	0.059	>4:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = As Left Nominal(Rounded) - Tolerance; Max = As Left Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Nicol Rodriguez, Quality Manager

Aaron Judice, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Extra-Long-Stem Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Extra-Long-Stem Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.
Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-RvA.
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).

BROWN AND CALDWELL

Acknowledgement Form

Name of Project/Site: Curis/ Florence Copper	**Project No:** 149505
Project/Site Location: Florence, Arizona	**Permit Type (APP, AZPDES):** APP
Employee Completing Form: (Print and Sign): Michael Orcutt	**Date:** 1/31/2017

Employee Acknowledgement:

The following signatures indicate that these personnel have read and/or been briefed on the documents indicated and understand the work to be performed:

- ☑ pH by SM 4500 H-B
- ☑ temperature by SM 2550B
- ☑ specific conductance by SM 2510 B
- ☑ dissolved oxygen by SM 4500 O-G
- ☑ turbidity by EPA 180.1
- ☐ Manufacturer Info for Instrument _____
- ☐ Manufacturer Info for Instrument _____

Print	Sign
M. Orcutt	

Comments

TURNER LABORATORIES INC
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # _____ DATE 7-17-2017 PAGE 1 OF 1

PROJECT NAME Florence Copper
CONTACT NAME: Barb Sylvester
COMPANY NAME: Brown + Caldwell
ADDRESS: 201 E. Washington #500
CITY Phoenix STATE AZ ZIP CODE 85004 Phx, Az
PHONE 602.567.4000 FAX 4001
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Inorganics (1,3,4)	Cyanide (Free)	VOC's, Organics	TPH/DRO (Phx)	Diss. Metals (1,3,4)	Rad Chem (1,3,4)	Region 222
MS5-UBF	7-17-17	13:16		GW	12	X	X	X	X	X	X	X
MS6-UBF	↓	11:32		↓	12	X	X	X	X	X	X	X
MS7-0	↓	15:50		↓	12	X	X	X	X	X	X	X

1. RELINQUISHED BY:
Signature
Printed Name: Michael Orcutt
Firm: Brown + Caldwell
Date/Time: 7-17-2017 14:40

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name: TURNER LABORATORIES, INC.
Firm
Date/Time

TURNAROUND REQUIREMENTS:
X Standard (approx.10 days)*
___Next day ___2 Day ___5 Day*
___ Email Preliminary Results To:
* Working Days

REPORT REQUIREMENTS:
___ I. Routine Report 7-18-17
X II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
___ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ___Y ___N
P.O. # Curis/Florence Title 06
Bill to: Curis Resi

SAMPLE RECEIPT:
Total Containers
Temperature
☐ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☐
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☐	Appropriate Head Space	☐
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☐	Received Within Hold Time	☐

Diss. Metals field Filtered.

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # _____ DATE 7-18-2017 PAGE 1 OF 1

PROJECT NAME Florence Copper
CONTACT NAME: Barb Sylvester
COMPANY NAME: Brown and Caldwell
ADDRESS: 201 E. Washington #500
CITY Phoenix STATE AZ ZIP CODE 85004
PHONE 602.567.4000 FAX - 4001
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Emergents (11st)	Cyanide (Free)	VOC's, Organics	TPH/DRO (plus)	Diss. Metals (13st)	Rad Chem (11st)	Radon 222
MS8-0	7-18-17	0930		GW	12	X	X	X	X	X	X	X
MS4-LBP	1	11:08		GW	12	X	X	X	X	X	X	X
MS4-0	1	13:02		GW	12	X	X	X	X	X	X	X

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Printed Name Michael Orcutt
Firm Brown + Caldwell
Date/Time 7-18-17 1430

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
Date/Time

TURNAROUND REQUIREMENTS:
X Standard (approx.10 days)*
___Next day ___2 Day ___5 Day*
___ Email Preliminary Results To:
* Working Days

REPORT REQUIREMENTS:
___ I. Routine Report
X II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
___ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account X Y ___N
P.O. # Florence Direct
Bill to: Curis Res.

SAMPLE RECEIPT:
Total Containers ___
Temperature ___
☐ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes ☐ No	Custody Seals	☐	Preservation Confirmation	☐
ADEQ Forms:	☐ Yes ☐ No	Container Intact	☐	Appropriate Head Space	☐
Mail ADEQ Forms:	☐ Yes ☐ No	COC/Labels Agree	☐	Received Within Hold Time	☐

Diss. Metals field filtered / See Analysis Req. Sheet provided

TURNER LABORATORIES INC.
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # _____ DATE 7-19-2017 PAGE 1 OF 1

PROJECT NAME Florence Copper
CONTACT NAME: Barb Sylvester
COMPANY NAME: Brown & Caldwell
ADDRESS: 201 E. Washington #500
CITY Phoenix STATE AZ ZIP CODE 85004
PHONE 602.567.4000 FAX - 4001
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Inorganics (List)	Cyanide (Free)	VOC's/Organics	TPH/DRO (Phx)	Diss. Metals (List)	Rad Chem (List)	Radon 222
MS9-0	7-19-17	0830		GW	12	X	X	X	X	X	X	X
M60-0	↓	1028		GW	12	X	X	X	X	X	X	X
M61-LBF		1248		GW	12	X	X	X	X	X	X	X
MS2-UBF		1445		GW	12	X	X	X	X	X	X	X
M63.0		1500		GW	12	X	X	X	X	X	X	X

1. RELINQUISHED BY: Signature; Printed Name: Michael Orcutt; Firm: Brown & Caldwell; Date/Time: 7-19-17 @ 1600

2. RECEIVED BY: Signature; Printed Name: Jan Ream; Firm: EC; Date/Time: 7-19-17 @ 1600

3. RELINQUISHED BY: Signature; Printed Name; Firm; Date/Time

4. RECEIVED BY: Signature; Printed Name: TURNER LABORATORIES, INC.; Firm; Date/Time

TURNAROUND REQUIREMENTS:
- X Standard (approx.10 days)*
- ___Next day ___2 Day ___5 Day*
- ___ Email Preliminary Results To:

* Working Days

REPORT REQUIREMENTS:
- ___ I. Routine Report
- X II. Report (Includes DUP,MS,MSD, as required, may be charged as samples)
- ___ III. Date Validation Report (Includes All Raw Data)

Add 10% to invoice

INVOICE INFORMATION:
Account X Y ___ N
P.O. # Florence Direct
Bill to: Curtis Ros.

SAMPLE RECEIPT:
Total Containers _____
Temperature _____
☐ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☐
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☐	Appropriate Head Space	☐
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☐	Received Within Hold Time	☐

Diss. Metals field filtered *SEE ANALYSIS Page w/ COC